MICOM-2ET-RDP

HF-SSB Rapid deployment package with embedded Automatic link Establishment (ALE)
125 watt PEP/Average 1.6-30 MHz

**Features**
- Self contained communications system
- Ruggedized Transportable 125 watt PEP/Average
- Front panel programming
- Enhanced features for better communications
- Detachable control head
- Detachable ATU for enhanced performance & safety
- Auto sensing AC power supply with automatic AC/DC changeover
- Conforms to MIL-STD 810 and EIA Specifications
- ALE per FED-STD-1045 and MIL-STD-188/141A
- High MTBF
- Complies with ISO 9001 Requirements
- Security access code
- Various antenna system options
- Voice activated digital squelch
- Digital noise blanking and clarifier
- Multi-language Liquid Crystal Display
- BITE (Built-In Test Equipment)
- Meets FCC and EMC standards
- Selectable front-end Attenuator
- Adaptable internal configuration option
- Excellent frequency stability
- Selectable Power Output
- Variable notch filter
- Sub-octave pre-selector

MICOM-2ET-RDP is an advanced Transportable Digital Signal Processing communication system, intended for very wide range radio communications. It provides, Voice, Data, Fax and E-mail solutions with a high degree of sophistication, signal quality and reliability, while being very simple to operate.

MICOM-2ET-RDP is a self-contained communication system, the radio, AC power supply, ATU or tactical wide band antenna, cables and grounding are housed into a rugged compact suitcase small enough to fit under an airline seat. The Automatic Link Establishment-ALE (per FED-STD 1045 and MIL-STD 188/141A) is a STANDARD FEATURE of every MICOM-ET-RDP.
**MICOM-2ETRDP**

**HF-SSB Rapid deployment package with embedded Automatic link Establishment (ALE) 125 watt PEP/Average 1.6-30 MHz**

### GENERAL

- **Model Number:** M81AMNOKV5-K with optional, GS50 ATU system or GS31 Wide band Ant. System.
- **Frequency Range:** 1.6 MHz Tx, 100 kHz Rx to 30 MHz
- **Number of Channels:** 200: User programmable; Simplex or Half Duplex
- **Scanning:** 5 groups with up to 100 channels per group
- **Frequency Stability:** 0.6 ppm (±0.1 ppm optional)
- **Frequency Drift (Aging):** 1 ppm/year
- **Audio Bandwidths @ -6dB:** Voice: 350 to 2700 Hz
- **Output Power:** 125W PEP and average
- **Hum & Ripple:** -50 dB
- **Inband Noise:** -60 dB (30 Hz BW)
- **Tx/Rx Switching Time:** 10 msec
- **Current Consumption:** Operating Temp. Range: -30°C to +40°C
- **Humidity:** 95% @ 50°C
- **Operating Voltage:** Ac: 85-132V and 170-265V, 47-440Hz (Auto-sensing)
- **Frequency Drift (Aging):** 1 ppm/year
- **Audio Bandwidth Ripple:** 3 dB
- **Current Consumption:** Operating Temp. Range: -30°C to +40°C
- **Humidity:** 95% @ 50°C
- **Operating Voltage:** Ac: 85-132V and 170-265V, 47-440Hz (Auto-sensing)

### TRANSMITTER

- **Output Power:** 125W PEP and average
- **Reduced Power Levels:** 25W, 62W, 100W (RSS Programmable)
- **Audio Bandwidth Ripple:** 3 dB
- **Intermodulation:** -31 dB (PEP @ 150 MHz PEP, Typical). Note 1
- **Harmonic Emissions:** -64 dB (PEP @ 70 dB PEP, Typical) Note 1
- **Spurious Emissions:** -64 dB (PEP @ 70 dB PEP, Typical) Note 1
- **Carrier Suppression:** -50 dB (PEP)
- **Undesired Sideband Suppression:** -55 dB (PEP)
- **Audio Distortion:** 2.5%
- **1/2 Power Mic. Sensitivity:** 125 W (500 mW RMS) 600 ohms
- **Hum & Ripple:** -50 dB
- **Inband Noise:** -60 dB (30 Hz BW)
- **Tx/RX Switching Time:** 10 msec
- **Current Consumption:** Operating Temp. Range: -30°C to +40°C
- **Humidity:** 95% @ 50°C
- **Operating Voltage:** Ac: 85-132V and 170-265V, 47-440Hz (Auto-sensing)

### RECEIVER

- **Sensitivity (INR:SSB):** 0.5 µv for 10 dB INR (Voice) 0.3 µv for 5 dB INR, Typical. Note 1
- **Selectivity:** 6 dB (350 to 2700 Hz)
- **Intermodulation:** -31 dB (25 W to 30 MHz)
- **Hum & Ripple:** -60 dB (30 Hz BW)
- **Inband Noise:** -60 dB (30 Hz BW)
- **Tx/RX Switching Time:** 10 msec

### MILITARY & INDUSTRIAL STANDARDS

MICOM-2ETRDP meets the following US military and industrial standard requirements for adverse environmental conditions:

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<tbody>
<tr>
<td>Vibration</td>
<td>Method 514.2</td>
<td>Method 514.3</td>
<td>Method 514.4</td>
</tr>
<tr>
<td>Shock</td>
<td>516.2</td>
<td>516.3</td>
<td>516.4</td>
</tr>
<tr>
<td>Rain</td>
<td>506.1</td>
<td>506.2</td>
<td>506.3</td>
</tr>
<tr>
<td>Salt Fog</td>
<td>509.1</td>
<td>509.2</td>
<td>509.3</td>
</tr>
<tr>
<td>Dust</td>
<td>507.1</td>
<td>507.2</td>
<td>507.3</td>
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</tbody>
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The MICOM-2ETRDP also meets the MIL-STD508B for shock, vibration and applicable test procedures, US FCC for channel occupancy, spurious, interference and frequency tolerance. It is manufactured according to the demanding standards of ISO 9000 and EMC (Electromagnetic Compatibility).

### OPTIONS

- RS232 Remote Control Interface
- Linear Amplifier Interface
- Interlink Interface
- RSS for PC (Radio and ALE)
- High (0.1 ppm) Frequency stability
- Interlink Interface
- RSS for PC (Radio and ALE)
- High (0.1 ppm) Frequency stability
- Interlink Interface
- RSS for PC (Radio and ALE)
- High (0.1 ppm) Frequency stability

### MAJOR ACCESSORIES

- Phone Patch
- Interlink IF/HF Repeater
- Automatic Antenna Tuner
- Automatic Telephone Interconnect
- 1 kW Amplifier
- 400 W Amplifier
- Antennas and Grounding Kit
- Data/Fax Modem
- CW Key & Headphones

Specifications subject to change without notice.

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